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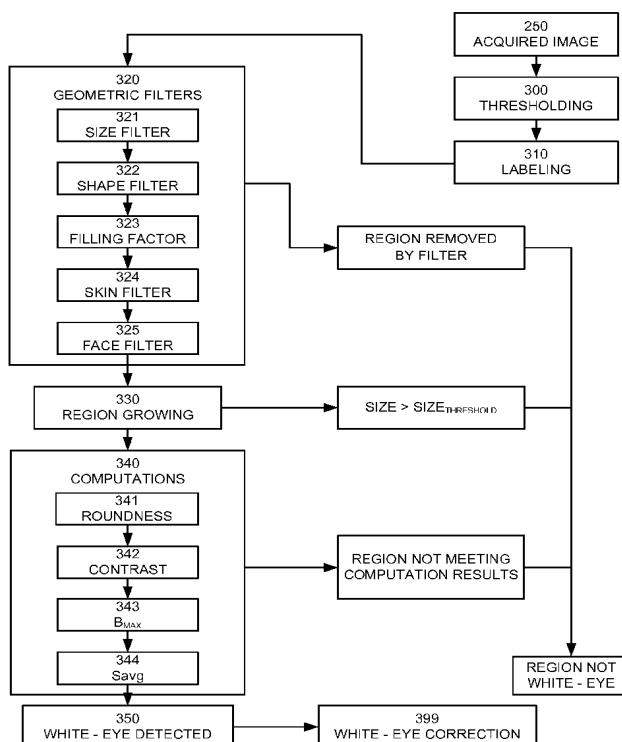
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[Continued on next page]

(54) Title: AUTOMATIC DETECTION AND CORRECTION OF NON-RED EYE FLASH DEFECTS



(57) Abstract: A technique for detecting large and small non-red eye flash defects in an image is disclosed. The method comprises selecting pixels of the image which have a luminance above a threshold value and labeling neighboring selected pixels as luminous regions. A number of geometrical filters are applied to the luminous regions to remove false candidate luminous regions.

WO 2007/095553 A3

FIGURE 3



MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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USPC - 382/275

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8): G06K 9/40 (2007.01)

USPC: 382/275

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 382/167, 190, 159 (text search)Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST(USPT,PGPB,EPO,JPO,DERWENT); DialogPRO(Engineering); Google
Search terms: no red eye bright flare white reduction effect defect filter remove process edit image photo photograph luminance bright threshold minimum maximum max min score

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0238230 A1 (YOSHIDA) 27 October 2005 (27.10.2005), fig 4-8, para [0042], [0045]-[0064], [0072].	1-20
A	US 5,748,764 A (BENATI et al.) 05 May 1998 (05.05.1998), fig 4; col 1, ln 65 to col 2, ln 47; col 4, ln 1-5; col 6, ln 16-55; col 9, ln 8-26.	1, 9 and 11
A	US 2004/0047491 A1 (RYDEK) 11 March 2004 (11.03.2004), para [0010]-[0013], [0035]-[0037], [0053].	1, 9 and 11

 Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent but published on or after the international filing date
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"&"	document member of the same patent family

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